

Screen shots of a Sample Projects developed by using C#, .Net, XML, WPF, MySQL for PLC based Nonwoven Process Control System for Carding.

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Notes : I cannot provide the description of the project because of Company Policy.

1.1 The Carding (Screenshot : A Sample Project)

Globalsettings

Navigation: AP

>Carding or AP

>Carding>Card

Line master set	<input type="text" value="10.0"/>	%
Line master act.	<input type="text" value="0.0"/>	%

Figure 1-1: Carding - Global settings

Navigation:AP>Carding

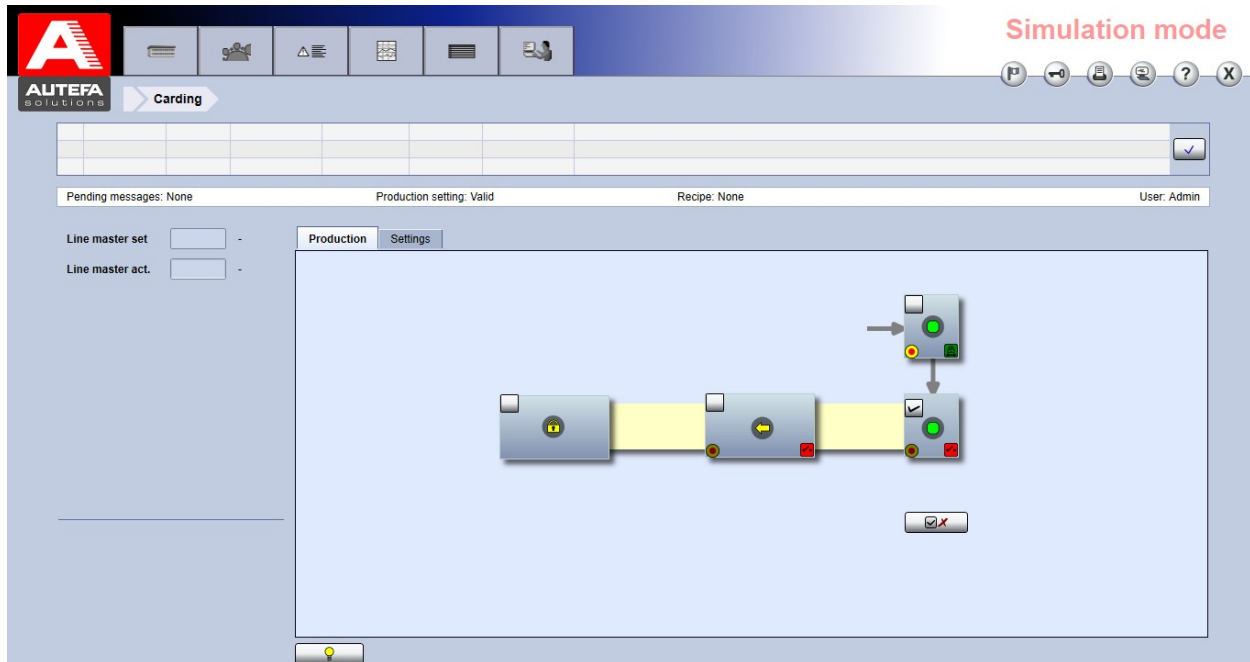


Figure 1-2: Carding - Plant

Navigation:AP>Carding> Settings

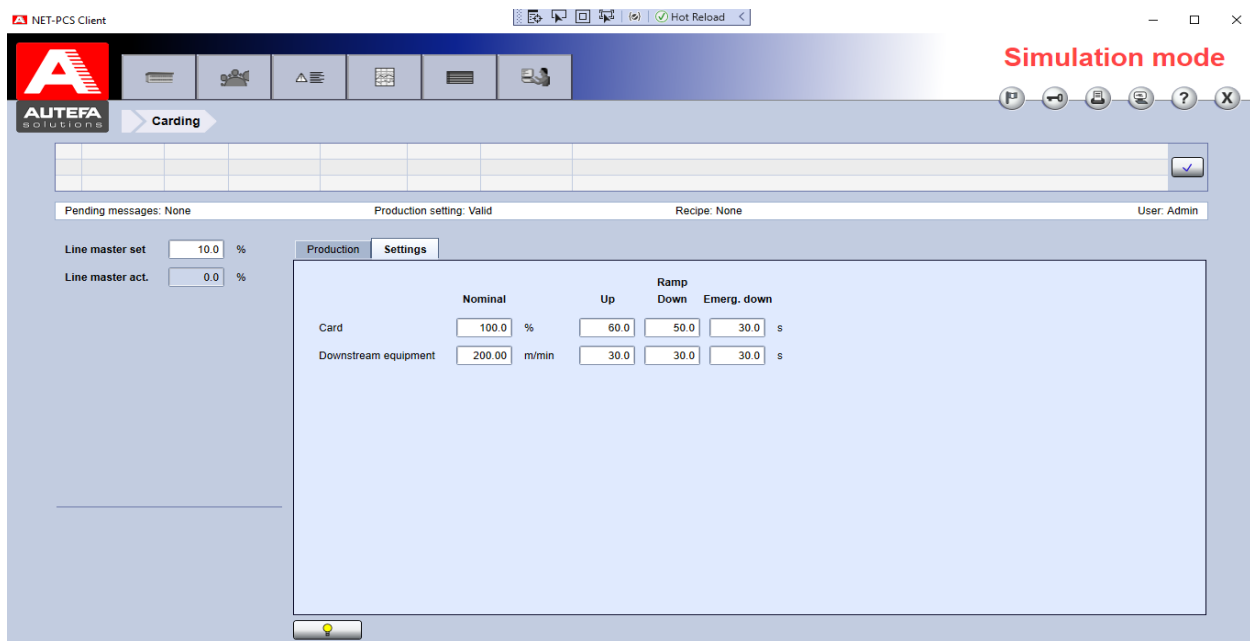


Figure 1-3: Carding – Settings

1.2 The Filling cage

"Production" tab

Navigation: AP > Carding > Filling cage > Production tab

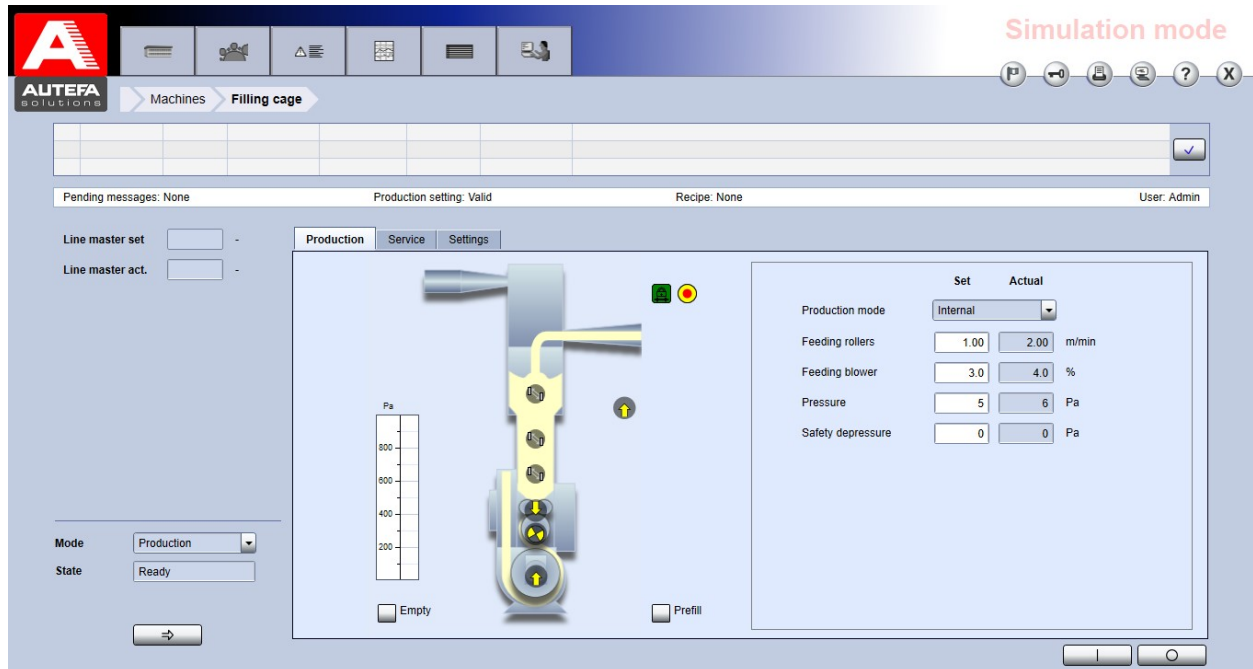


Figure 1-4: Filling cage - "Production" tab

"Service" tab

Navigation: AP > Carding > Filling cage > Service tab

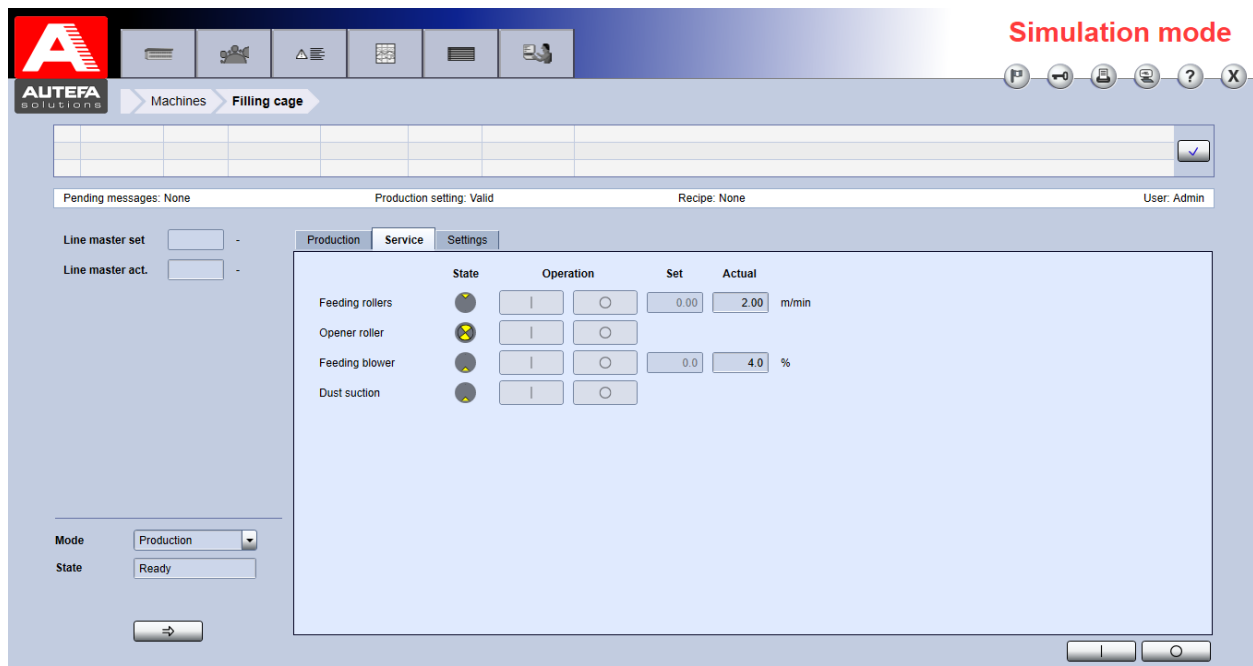


Figure 1-5: Filling cage - "Service" tab

"Settings" tab

Navigation: AP>Carding> Filling cage>Settings tab

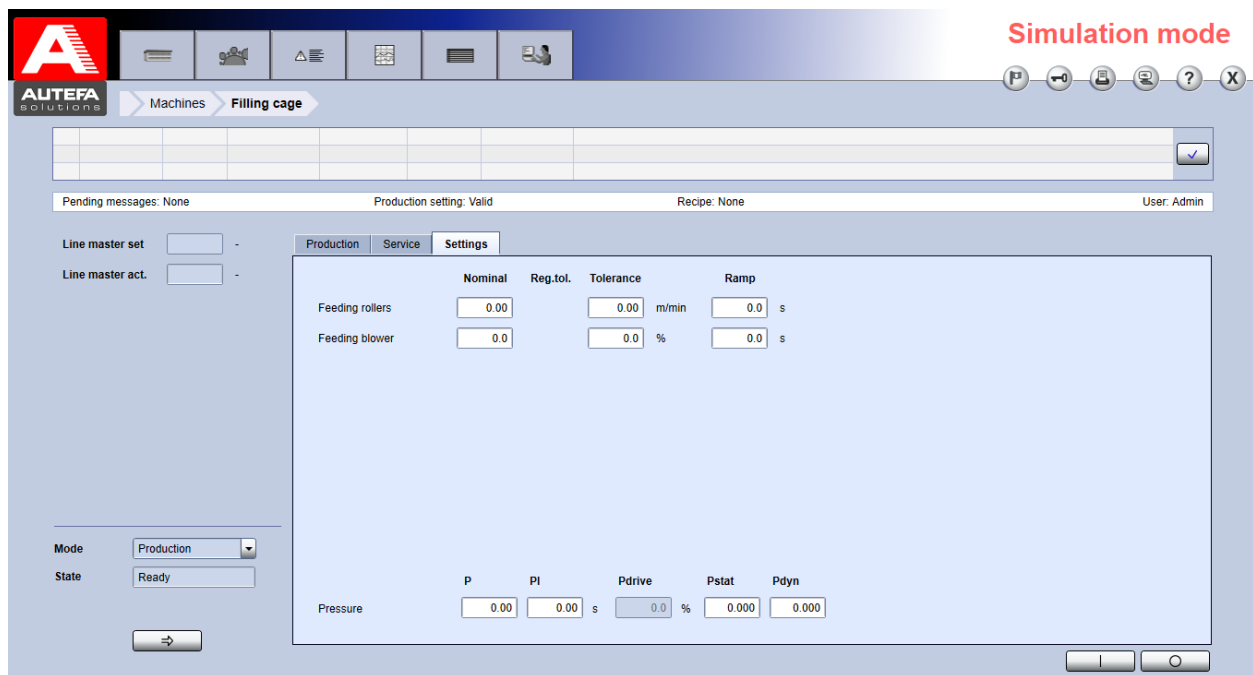


Figure 1-6: Filling cage - "settings" tab

1.3 The Chute feeder

"Production" tab

Navigation: AP>Carding> Chute feeder>Production tab

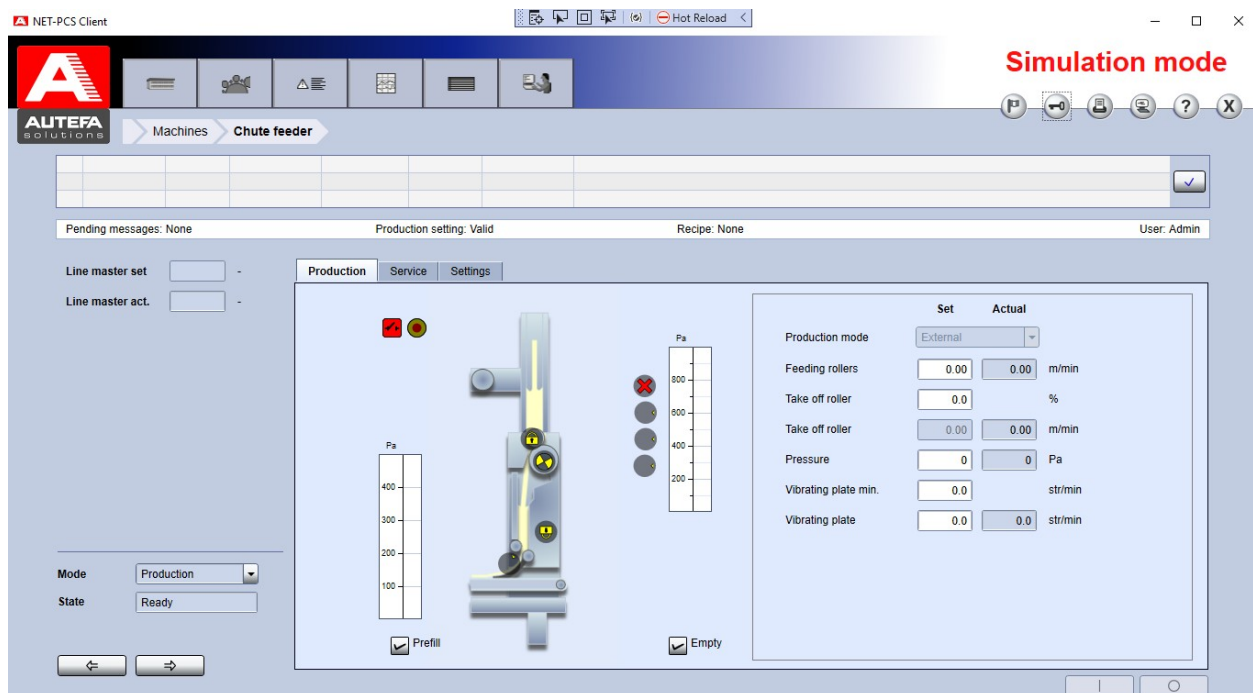


Figure 1-7: Chute feeder- "Production" tab

"Service"tab

Navigation:AP>Carding> Chute feeder>Service tab

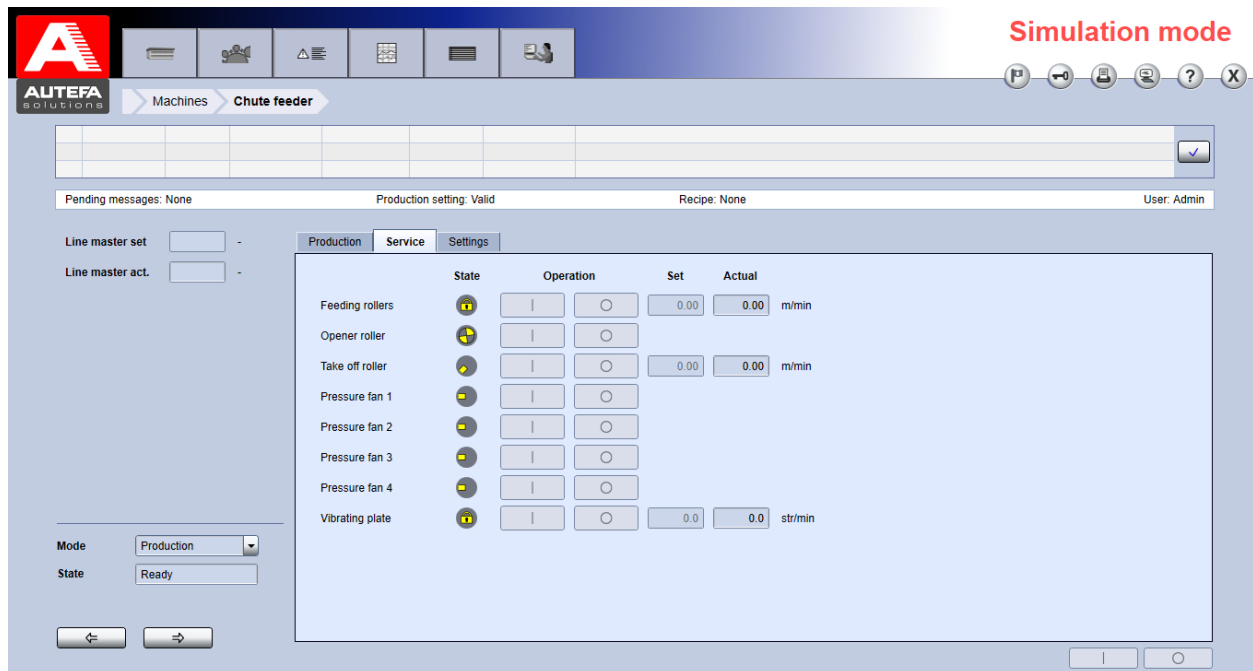


Figure 1-8: Chute feeder - "Service"tab

"Settings"tab

Navigation:AP>Carding> Chute feeder>Settings tab

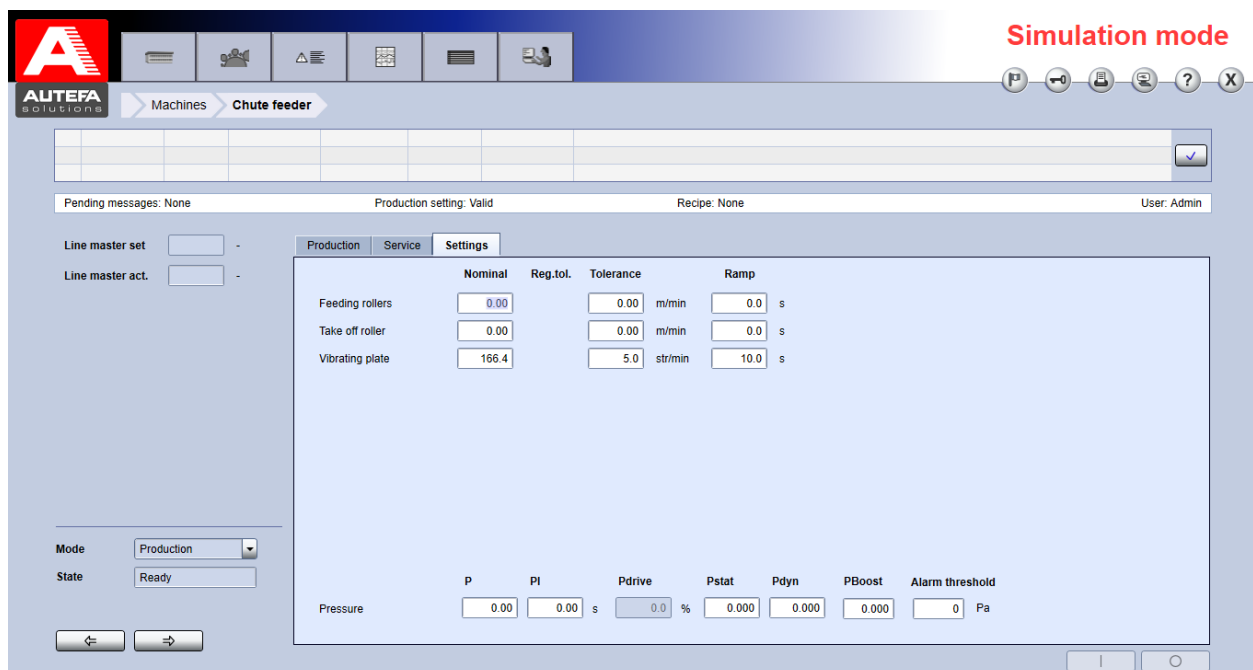


Figure 1-9: Chute feeder - "settings" tab

1.4 The Card

"Production"tab

Navigation:AP>Carding> Card>Production tab 1

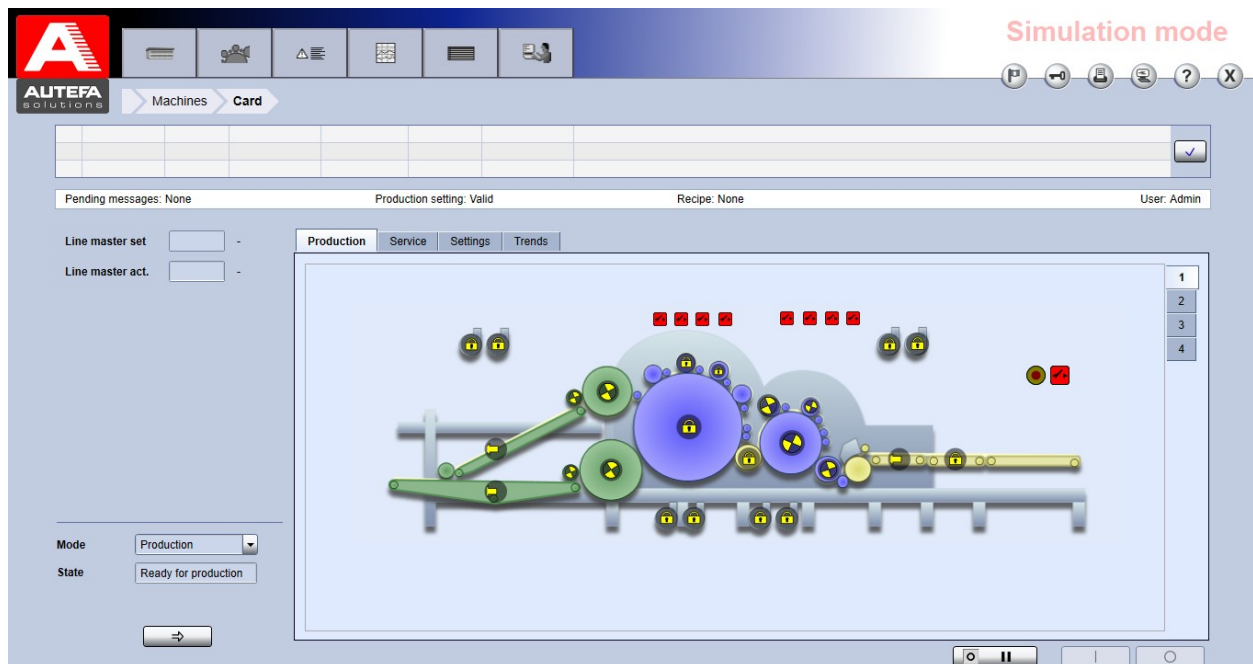


Figure 1-10: Card- "Production" tab 1

"Production"tab

Navigation:AP>Carding> Card>Production tab 2

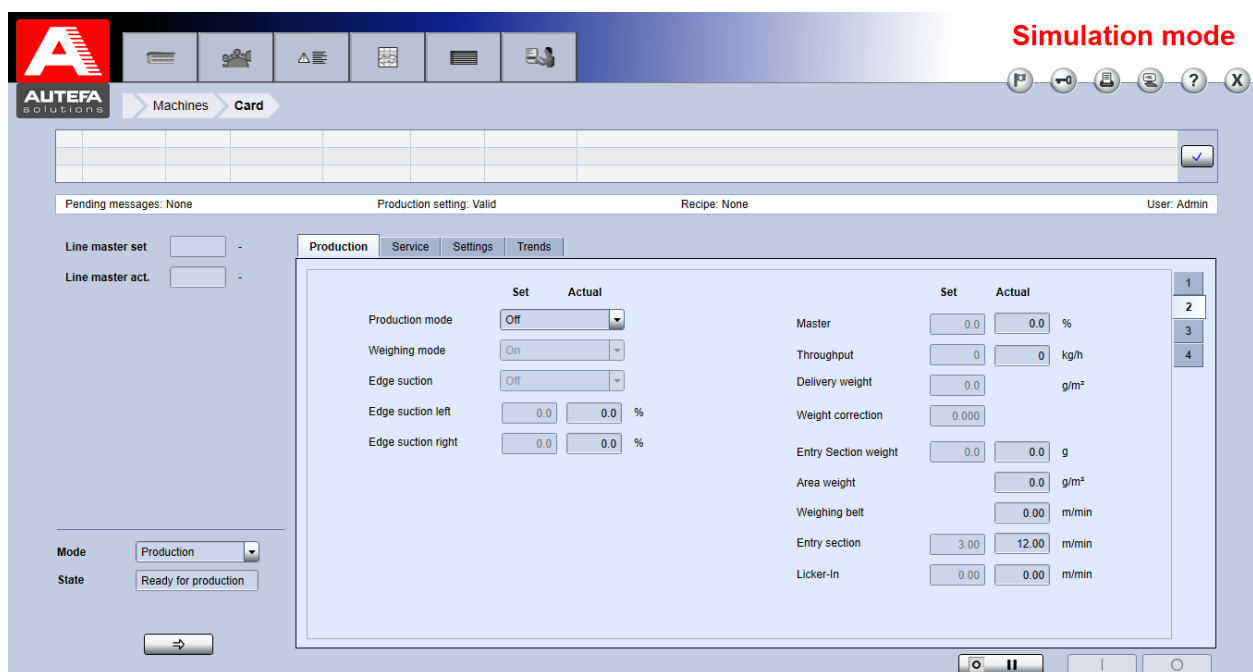


Figure 1-11: Card- "Production" tab

"Production"tab

Navigation:AP>Carding> Card>Production tab 3

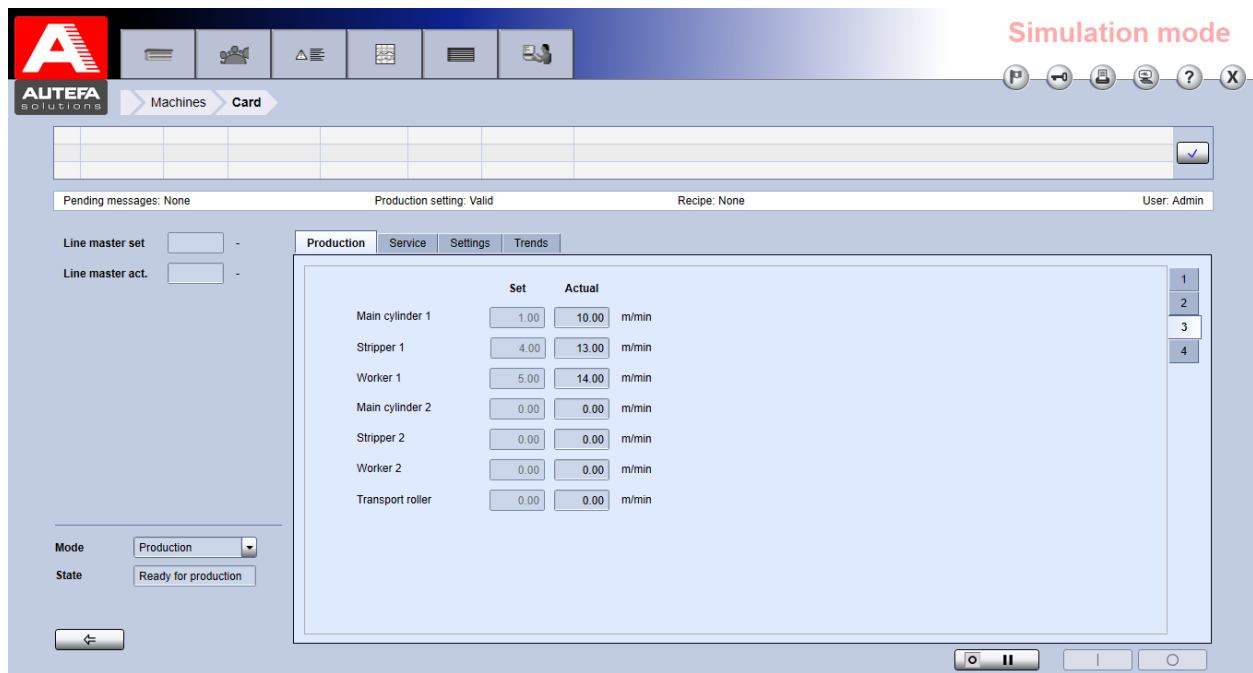


Figure 1-12: Card- "Production" tab 3

"Production"tab

Navigation:AP>Carding> Card>Production tab 4

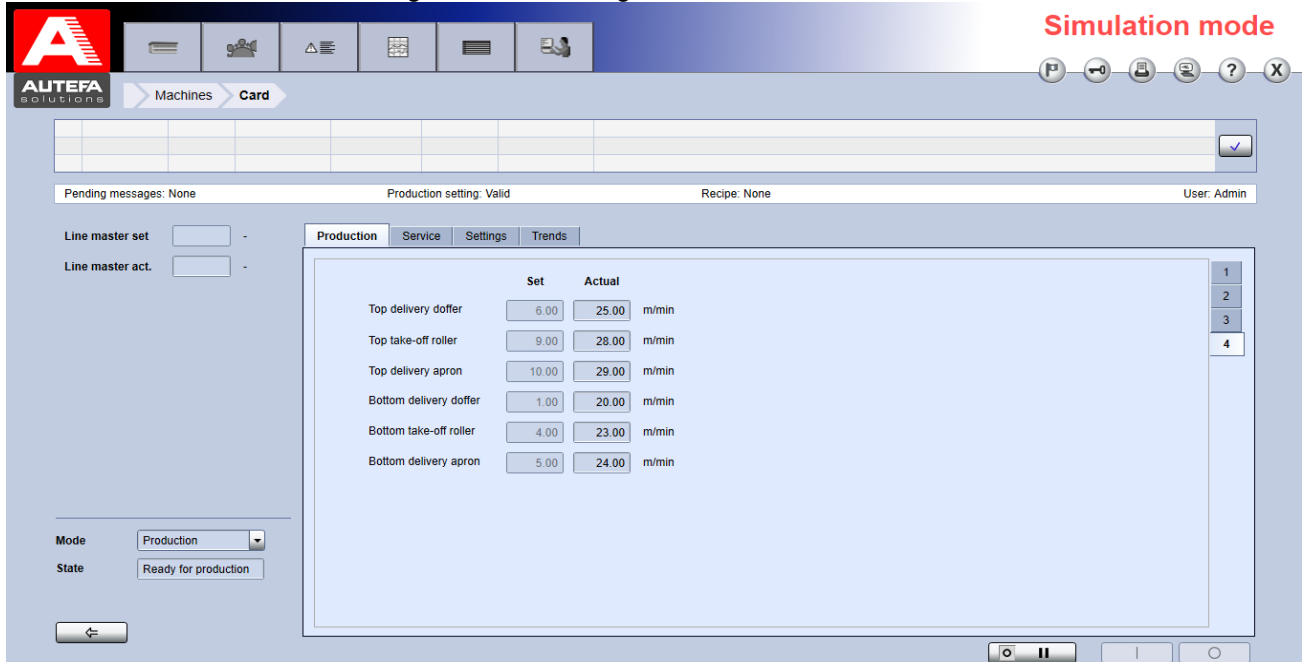


Figure 1-13: Card- "Production" tab 4

"Trend"tab

Navigation:AP>Carding> Card>Trend tab

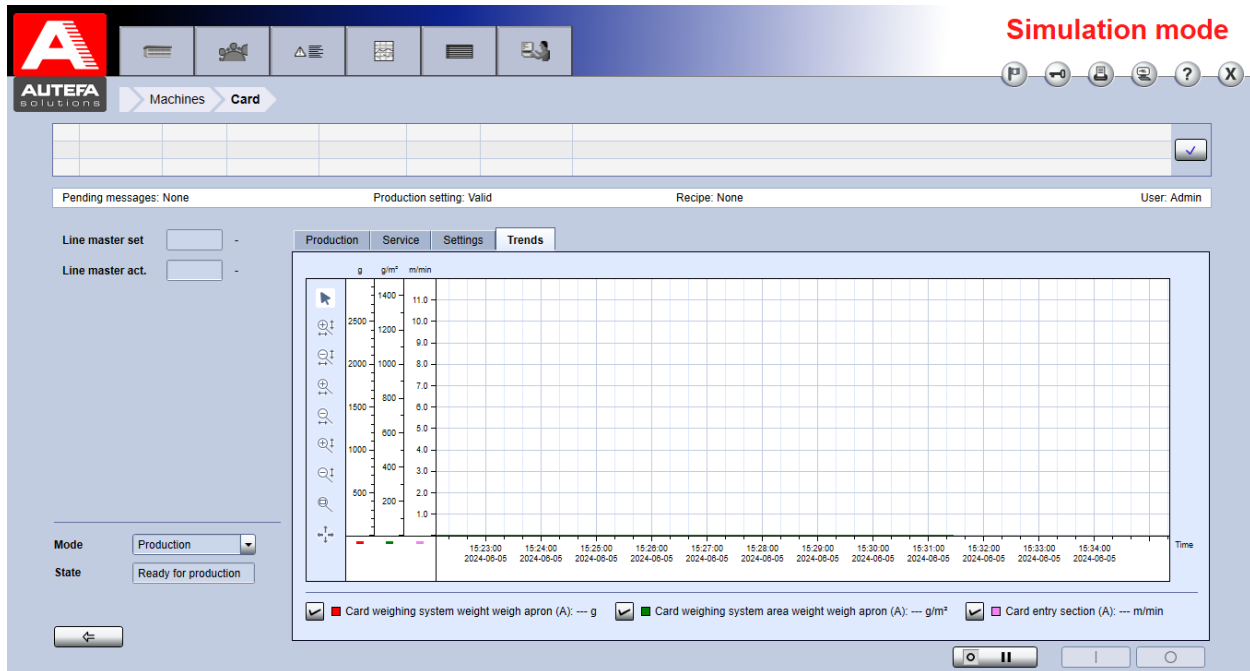


Figure 1-14: Card - "Trend"tab

"Service"tab

Navigation:AP>Carding> Card>Service tab 1

Simulation mode

Pending messages: None Production setting: Valid Recipe: None User: Admin

Line master set -
Line master act. -

Mode: Production
State: Ready for production

Production Service Settings Trends

	State	Operation	Set	Actual	
Weighing belt			0.00	0.00	m/min
Entry section			5.00	12.00	m/min
Licker-In			0.00	0.00	m/min
Main cylinder 1			1.00	10.00	m/min
Stripper 1			3.00	13.00	m/min
Worker 1			2.00	14.00	m/min
Main cylinder 2			0.00	0.00	m/min
Stripper 2			0.00	0.00	m/min
Worker 2			0.00	0.00	m/min
Transport roller			0.00	0.00	m/min

1 2 3 4

Figure 1-15: Card - "Service"tab 1

"Service"tab

Navigation:AP>Carding> Card>Service tab 2

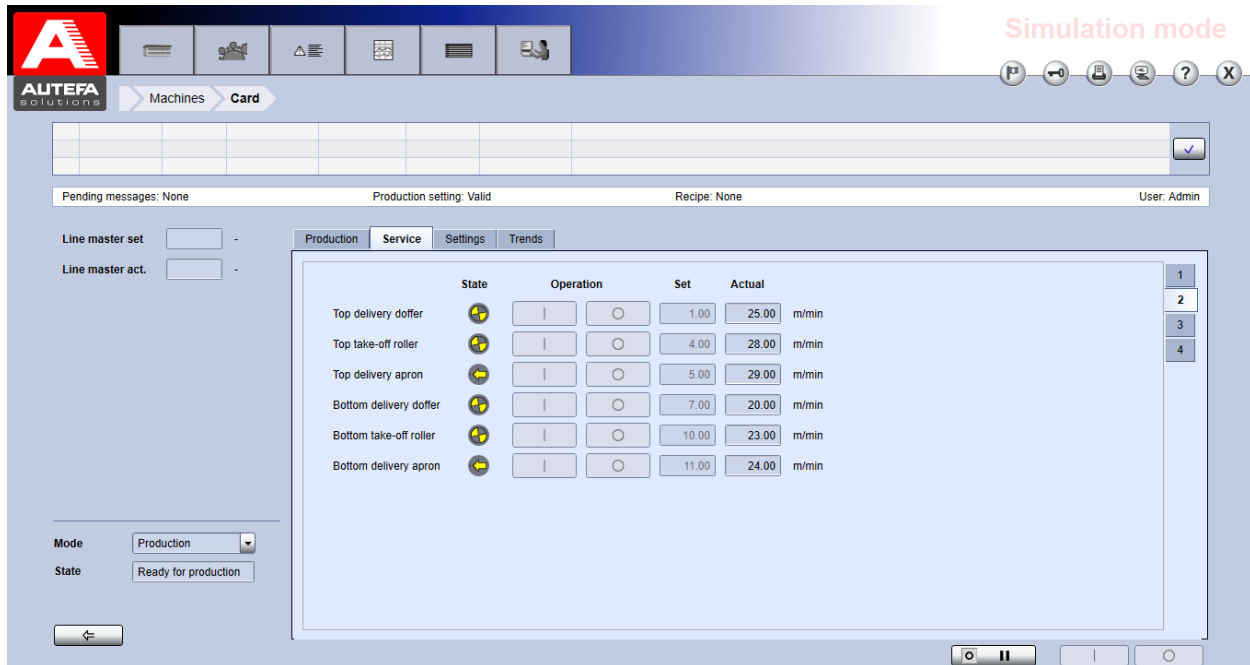


Figure 1-16: Card - "Service" tab 2

"Service"tab

Navigation:AP>Carding> Card>Service tab 3

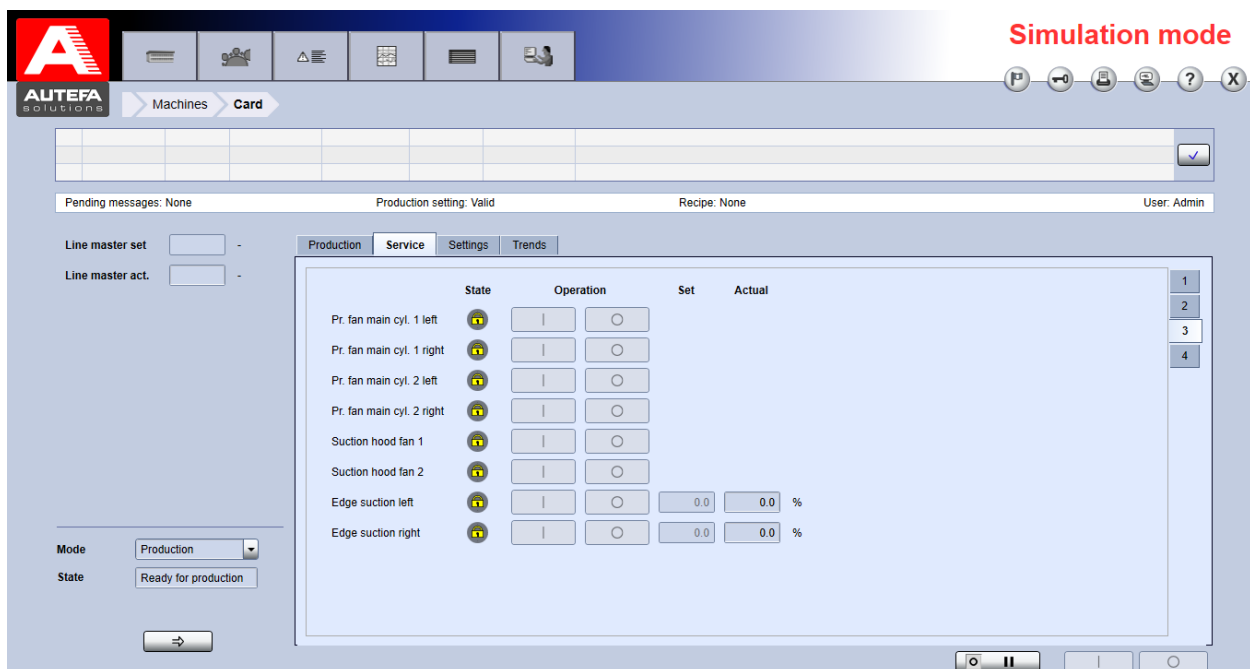


Figure 1-17: Card - "Service"tab 3

"Service"tab

Navigation:AP>Carding> Card>Service tab 4

AUTEFA solutions Simulation mode

Machines > Card

Pending messages: None Production setting: Valid Recipe: None User: Admin

Line master set: -
Line master act.: -

Mode: State:

Production Service Settings Trends

Weighing system

Parameter	Actual	Unit	SIWAREX
Weight signal left	0.000	V	0e
Weight signal right	0.000	V	
Weight	0.0	g	0e
Weight symmetry	0.0	%	
Weight entry section	0.0	g	
Correction value	0.0000		
Speed entry section	0.00	m/min	

1 2 3 4

Figure 1-18: Card - "Service" tab 4

"Settings"tab

Navigation:AP>Carding> Card>Settings tab 1

AUTEFA solutions Simulation mode

Machines > Card

Pending messages: None Production setting: Valid Recipe: None User: Admin

Line master set: -
Line master act.: -

Mode: State:

Production Service Settings Trends

	Nominal	Tolerance	Ramp
Entry section	50.00	0.00 m/min	0.0 s
Weighing belt	0.00	0.00 m/min	0.0 s
Licker-In	50.00	0.00 m/min	0.0 s
Main cylinder 1	100.00	0.00 m/min	0.0 s
Stripper 1	0.00	0.00 m/min	0.0 s
Worker 1	0.00	0.00 m/min	0.0 s
Main cylinder 2	0.00	0.00 m/min	0.0 s
Stripper 2	0.00	0.00 m/min	0.0 s
Worker 2	0.00	0.00 m/min	0.0 s
Transfer roller	100.00	0.00 m/min	0.0 s

1 2 3 4

Figure 1-19: Card - "settings" tab 1

"Settings"tab

Navigation:AP>Carding> Card>Settings tab 2

AUTEFA SOLUTIONS Simulation mode

Machines > Card

Pending messages: None Production setting: Valid Recipe: None User: Admin

Line master set: -
Line master act.: -

Mode:

Production Service **Settings** Trends

	Nominal	Tolerance	Ramp
Top delivery doffer	<input type="text" value="200.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Top take-off roller	<input type="text" value="0.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Top delivery apron	<input type="text" value="0.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Bottom delivery doffer	<input type="text" value="0.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Bottom take-off roller	<input type="text" value="0.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Bottom delivery apron	<input type="text" value="0.00"/>	<input type="text" value="0.00"/> m/min	<input type="text" value="0.0"/> s
Edge suction left	<input type="text" value="0.0"/>	<input type="text" value="0.0"/> %	<input type="text" value="0.0"/> s
Edge suction right	<input type="text" value="0.0"/>	<input type="text" value="0.0"/> %	<input type="text" value="0.0"/> s

1 2 3 4

Figure 1-20: Card - "settings" tab 2

"Settings"tab

Navigation:AP>Carding> Card>Settings tab 3

AUTEFA SOLUTIONS Simulation mode

Machines > Card

Pending messages: None Production setting: Valid Recipe: None User: Admin

Line master set: -
Line master act.: -

Mode:

Production Service **Settings** Trends

Ramp			
Carding up	<input type="text" value="0.0"/> s	Master minimum	<input type="text" value="0.0"/> %
Production up	<input type="text" value="0.0"/> s	Production at emerg. stop	<input type="text" value="0.0"/> %
Down	<input type="text" value="0.0"/> s	Main cylinders brake on	<input type="text" value="0.0"/> %
Emerg. carding down	<input type="text" value="0.0"/> s	Production start delay	<input type="text" value="0.0"/> s
Emerg. production down	<input type="text" value="0.0"/> s		

Delivery width: m

1 2 3 4

Figure 1-21: Card - "settings" tab 3

"Settings" tab

Navigation: AP>Carding> Card>Settings tab

The screenshot shows the AUTEFA Carding software interface in "Simulation mode". The top navigation bar includes the AUTEFA logo, a series of icons, and the text "Simulation mode" in red. Below the navigation bar, the "Machines" tab is selected, and the "Card" sub-tab is active. The main content area is divided into several sections:

- Status Bar:** Displays "Pending messages: None", "Production setting: Valid", "Recipe: None", and "User: Admin".
- Left Panel:** Contains "Line master set" and "Line master act." fields, both with a minus sign. Below these are "Mode" (set to "Production") and "State" (set to "Ready for production") dropdowns.
- Settings Tab:** The "Settings" tab is selected, showing a table of parameters for the weighing system.
- Right Panel:** A vertical list of tabs numbered 1 through 4, with tab 4 being the active one.

Threshold		Weighing system	
Weigh apron max. alarm	0.0 %	Maximum tare left	0.000 V
Weigh apron max. warning	0.0 %	Scaling factor left	0.0
Weigh apron min. warning	0.0 %	Minimum weight automatic	0.0 g
		Maximum entry section speed	10.0 %
		Weigh apron length	0.0 mm
		Aprons width	0.0 mm
		Distance pulse length	0.00 mm
		Maximum tare right	0.000 V
		Scaling factor right	0.0
		Entry section apron length	0.0 mm

Figure 1-22: Card - "settings" tab 4